Adaptation Finance Sources, Mainstreaming and Innovative Approaches

KfW-Side event: Progress in Adaptation to Climate Change

UNFCCC-SB36, Bonn Room "METRO" 21 May 2012



Die Zukunftsförderer

Outline





Environment and Climate Finance of KfW - Adaptation Finance by Sector and Region





Sources for Adaptation Finance (KfW, 2011) **Bilateral** GCF? International part of the German Climate Development Special Fund on Energy & Climate Initiatives Projects (IKI/IKLU) €505 Mio. Adaptation to **IKI** plus **Biodiv/ REDD/** Climate Change (partly adapt.) Climate Tech. €155 Mio. €75 Mio. €275 Mio.

Our approach to adaptation





Mainstreaming Adaptation Systematic climate change assessment



Step 1: Is planned project at Is there a significant dependency 1. significant risk of being on climate parameters? Screening substantially negative affected by climate change? 2. Is there a significant potential for increasing resilience? If the answer is "yes" or "not clear": Step 2: Compilation and analysis Analysis of climate development In-depth of the information about the past, Assessment current and projected future Examination of potential impacts on the project climate development Climate risk and climate potential analysis Need for action Identification of adaptation options **Outcome:** Identified adaptation activities are integrated into the project \rightarrow Project "climate proof" Prioritisation and selection of adaptation opportunities

Cooperation with Scientific Community



- KfW works with the scientific community on adaptation methods and concepts in order to guarantee good quality project preparation and implementation
 - Preparation of Climate Fact Sheets for selected countries together with the German Climate Service Center (CSC) in Hamburg
 - Pilot-Network "Management of Climate Risks" in cooperation with CSC and other scientific institutions (in development)
 - Regional climate studies, e.g. in the Nile Equatorial Lakes Region and for the Figeh Spring close to Damascus with KIT (Karlsruhe Institute of Technology)



Practical information for Project Managers – **Climate Fact Sheets**



- provision of most relevant climate information for planning KfW projects
- Short, clear and plain format (3-7 pages) including information particularly about climate assessment
- Information about single countries or groups of "homogenous" countries
- Not only description, but also analysis of available information

Heat wave

Cold spell

Heavy rain

etc.

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Worldwide Commitment (Brochure: Adaptation to Climate Change)





Amazon's biodiversity under threat from climate change

KfW supports improved management of protected areas.

- Partner countries of Financial Cooperation on behalf of the German Government
- Regional offices of KfW Entwicklungsbank and DEG

Sahel: Cooperation with West African Development Bank (BOAD)



Problem

Approach

Effects

- In the Sahel region of West Africa, climate change is intensifying droughts and heavy rain events
 - Resource degradation
 - Declining agricultural productivity
 - Destruction of infrastructure
- Grants to BOAD (10,6 Mio. EURO) to allow interest subsidies for loans in the areas of:
 - Agriculture / Natural resources management
 - Drainage & Flood protection
- **Building up capacity** of BOAD in order to fund national climate adaptation projects
- Science cooperation & impact monitoring
- Reduced vulnerability of the population through:
 - Adapted resource management
 - Improved food security and nutrition
 - Improvement and protection of infrastructure





Development of Innovative Finance Instruments: Africa Risk Capacity (ARC) (in development)



• Objectives:

- African-owned, continental index-based weather risk insurance pool and early response mechanism => drought
- provides national governments with immediate cash payments for food security purposes
- Initial pool capitalisation: US\$ 300 mio. sought from member countries and donors
- Initial Partners: African Union's Department of Rural Economy and Agriculture (AUC), WFP, FAO, US treasury, NOOA, Rockefeller Foundation, DFID, GFDRR and IFAD others

• Satellite Rainfall Index:

- Satellite rainfall data have been used to design and rate the rainfall index;
- AUC/WFP designed software *AfricaRiskView* used to quantify drought risk by country.

Advantages of Pooling Risk:

• up to 50% savings by each country through risk pooling

- Use *AfricaRiskView* to set the level of drought risk funding each country wants to insure under ARC Pool and to set premium payable.
- Use *AfricaRiskView* to monitor season and to determine payouts

Example:

Drought event occurs once every 7years

- \Rightarrow country pays 14 % premium ARC
- ⇒ by international reinsurance market on their own would be 20%
- ⇒ by holding own reserves they would need twice the pool's capital

FINANCING	SEVERITY	FREQUENCY
Risk Transfer - Contingent Loans, International Derivative or Reinsurance Markets	E.g. Extreme Drought in Multiple Countries	LOW
ARC Risk Pool. Capital to pay Retained Drought Losses	E.g. Extreme Drought in a Country or Medium Droughts in a Few Countries	MEDIUM
Individual Country Members	Localised Drought or No Drought	HIGH

http://www.africanriskcapacity.org/



Climate Change Policy Based Loans (CCPBL) for NAPs?



- Increasing volumes of internat. climate finance => implementation solely through individual projects difficult
- Trend to...

...sustainable integration of adaptation into strategies and policies of partner countries (PRSPs/NAPs) ...strengthen partner countries' ownership for the implementation of climate strategies ... improve dialogue between partner countries and development partners on climate change

Criteria of PBAs	Feasibility/Relevance for NAPs
Leadership by partner country	Initiative, development and prioritization by national stakeholders
Consistent, overall program	Program framework
and budget framework	Budget framework
Donor coordination and harmonization in at least 2 of 4 issues: Reporting, budgeting, financial management, procurement	 Potential given; depends on donor community
Use of partner systems in at least 2 of 4 issues: Program design, implementation, financial management, monitoring & evaluation	 Program design possible Implementation, financial management, monitoring & evaluation

Challenges for Adaptation Finance



 Availability and access (open source platform?) to high-quality data (certification /ISO?) for sound mainstreaming of adaptation

- Development of new, innovative approaches and instruments to financing adaptation to climate change
 - \Rightarrow Risk insurance pools for extreme events
 - \Rightarrow Climate Change Policy Based Loans (CCPBL) for NAPs?





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Further Information on Adaptation to Climate Change:

http://www.kfw-entwicklungsbank.de/ebank/EN_Home/Climate_Change/index.jsp